Mr. John R. Gresham
DEPUTY PROJECT MANAGERNIGHT VISION/RECONNAISSANCE, SURVEILLANCE, AND TARGET ACQUISITION
FORT BELVOIR, VIRGINIA

John R. Gresham was born on January 1, 1950 in Portsmouth,Virginia to the family of a career Air Force office
Mr. Gresham received a private military school education, receiving his University Degree from the College of
Williamsburg, Va. with academic concentration in Latin AmericanHistory and Spanish language. He was comn
Lieutenant, US Army Adjutant General's Command and enteredactive duty in 1974 as Garrison Adjutant, Vint

In 1976, Mr. Gresham left active duty and accepted a Management Internship with the US Nuclear Regulatory
Office of Nuclear Material Safety & Safeguards (NMSS). His duties focused on contracting activities related t
safety and safeguards programs. He continued in the Army Reserves for an additional ten years, serving annu
duty periods with Department of the Army, the 82nd Airborne Division and the Defense Intelligence Agency.

In 1982, Mr. Gresham accepted a position as Procurement Analyst with the Army Materiel Command. There, he assisted the Undersecretary of the Army in establishing a Product Management Office for Night Vision Devices. Known today as the Project Manager for Night Vision Reconnaissance, Surveillance & Target Acquisition (PM NV/RSTA), this office developed, acquired, and fielded many of DOD's advanced night vision devices. These systems have been used in Haiti, Somalia, Grenada, the Gulf War and now in Bosnia/Kosovo and Afghanistan. During his tenure at PM NV/RSTA, Mr. Gresham served as Chief of Business Management, Product Manager andultimately, in his present position, as Deputy Project Manager to the present DA level organization. Technology programs managed at this time include image intensifiers, FLIR's, laser systems, radars, and multi-sensor suite systems.

Mr. Gresham achieved successes by leading efforts with NATO nations to develop cooperative links in night vision mission areas, resulting in a series of successful Foreign Comparative Test contracts in four NATO nations. These initiatives strengthened US/NATO efforts to develop cooperative links in night vision technologies. His efforts also included gaining US Host Nation status from NATO members for planning and conducting major NATO Structured Technology Demonstrations in 1996 and 1999. Senior DOD officials and NATO dignitaries attended both events.

As an OSD Affordability Task Force Panel Co-Chair (1996-1999), Mr. Gresham's team assisted in developing more effective DOD technology transition processes from "laboratory to production". He has also served as President of the Army's first civilian Competitive Development Group Board. This Board selected the top 25 Army civilian acquisition careerists for accelerated career development opportunities within the Army Acquisition Corps.

In 1997, Mr. Gresham was selected for a long-term executive development assignment with the Office of the Secretary of Defense, (DDR&E) to develop international science and technology programs with Japan, Argentina, Sweden, the European Commission and other multi-lateral partners. He returned to PM NV/RSTA in January 1999 to assist in developing next generation sensors for Army transformation.

As a member of the Army Acquisition Corps, he is professionally certified at the highest level (Level III) in Program Management and

Project Manager Night Vision/ Reconnaissance, Surveillance and Target Acquisition (PM NV/RSTA)

Contract Opportunities

Mr. John Gresham
Deputy Project Manager, NV/RSTA

(703) 704-3444
john.gresham@nvl.army.mil

PM NV/RSTA Mission

PM NV/RSTA develops, acquires, and provides superior, affordable day/night vision, multi-sensor and artillery locating radar systems to the American warfighter.

PM NV/RSTA Organization

PM NV/RSTA

PM FLIR

Thermal Systems for Vehicles

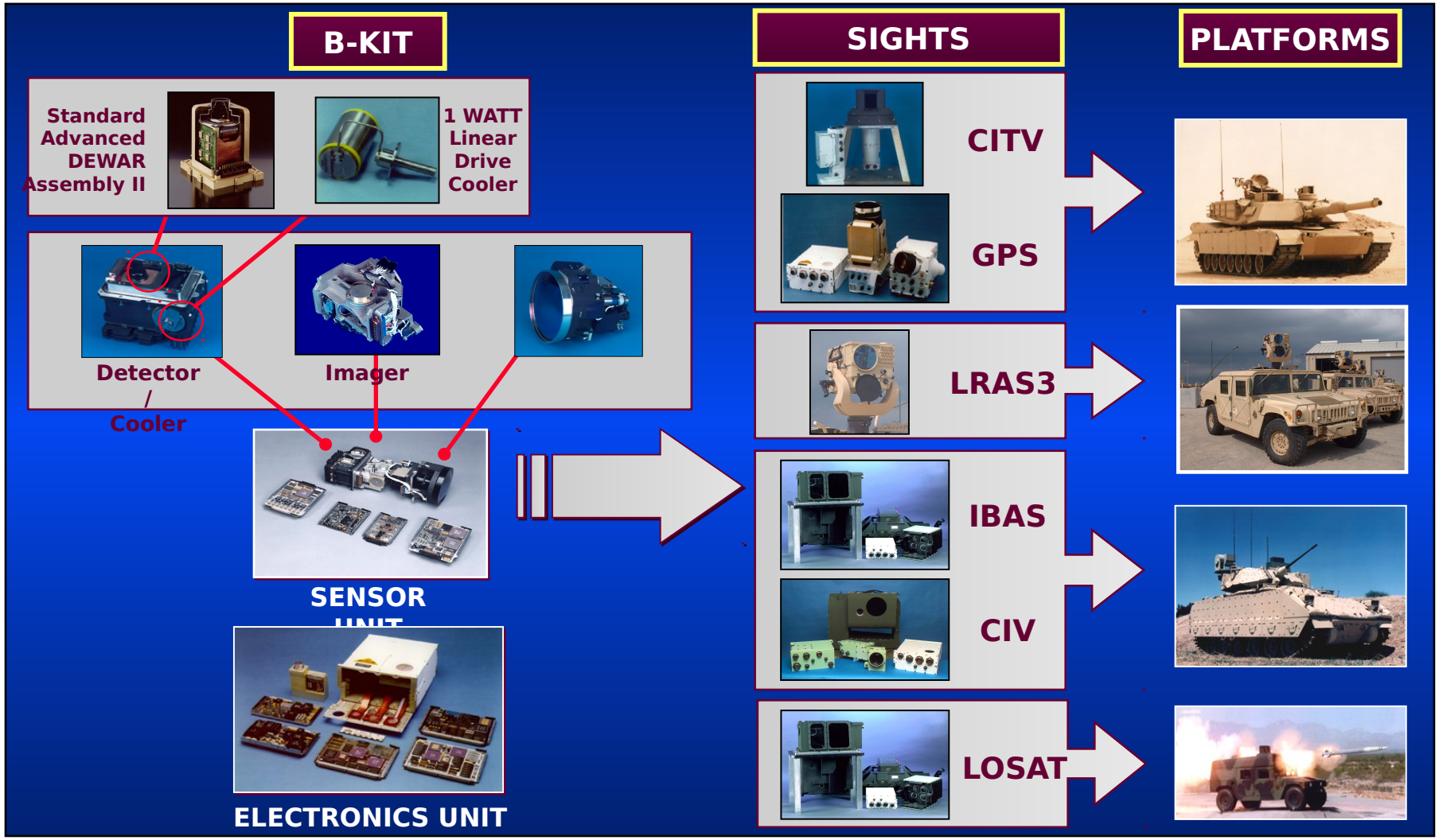
PRODUCT MANAGER UAV PAYLOADS

Robotic and Unmanned Sensors

PRODUCT MANAGER FIREFINDER
VISUS PER NEBULUM BELLI
CECOM

Artillery Locating Radar

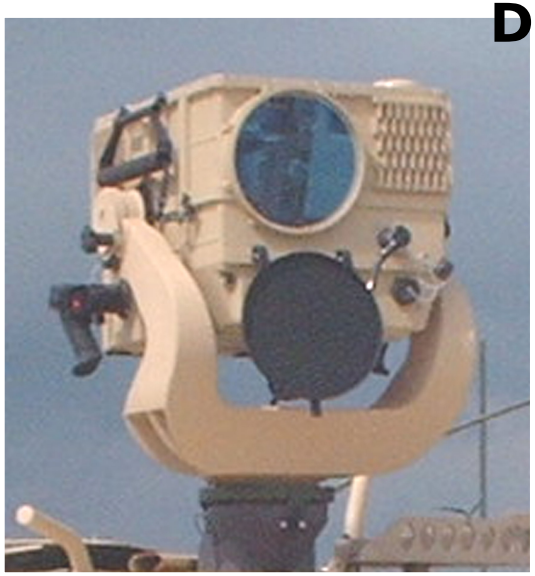
Thermal System for Vehicles



Horizontal Technology Integration Second Gen FLIR

PM FLIR

Driver's Vision Enhancer (DVE), AN/VAS-5



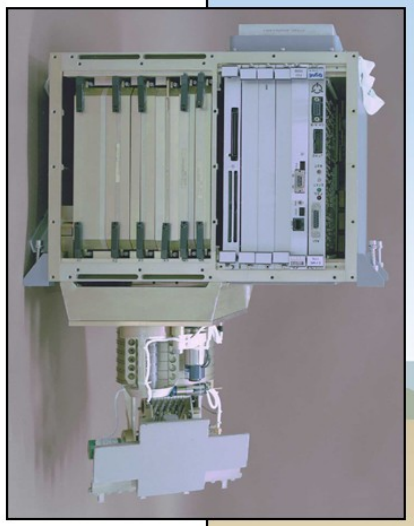
Long Range Advanced Scout Surveillance System (LRAS3)

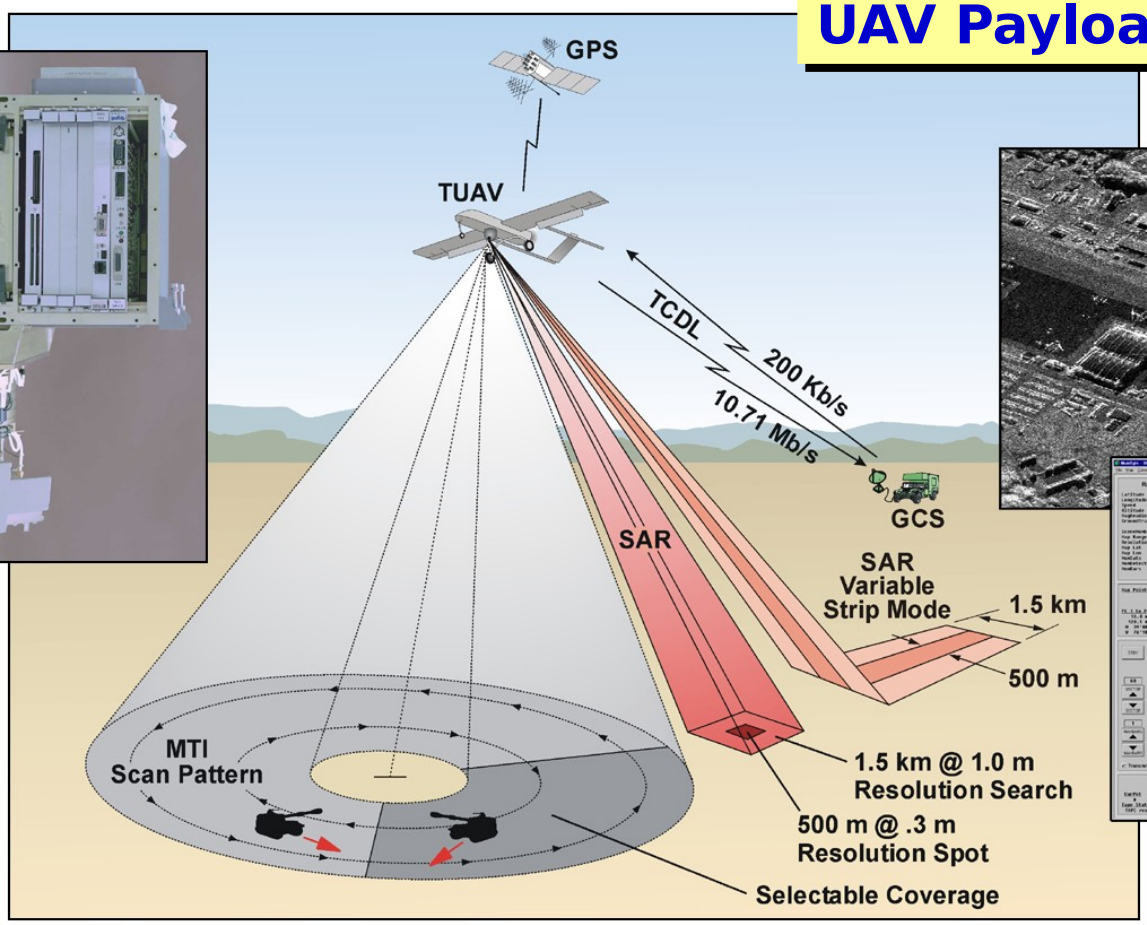
Lightweight Laser Designator Rangefinder (LLDR)

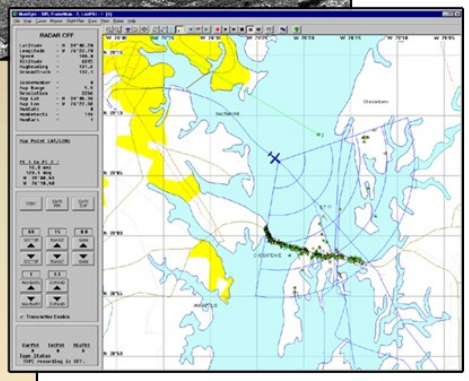
PM Robotic & Unmanned Sensors

Current Business

UAV Payloads



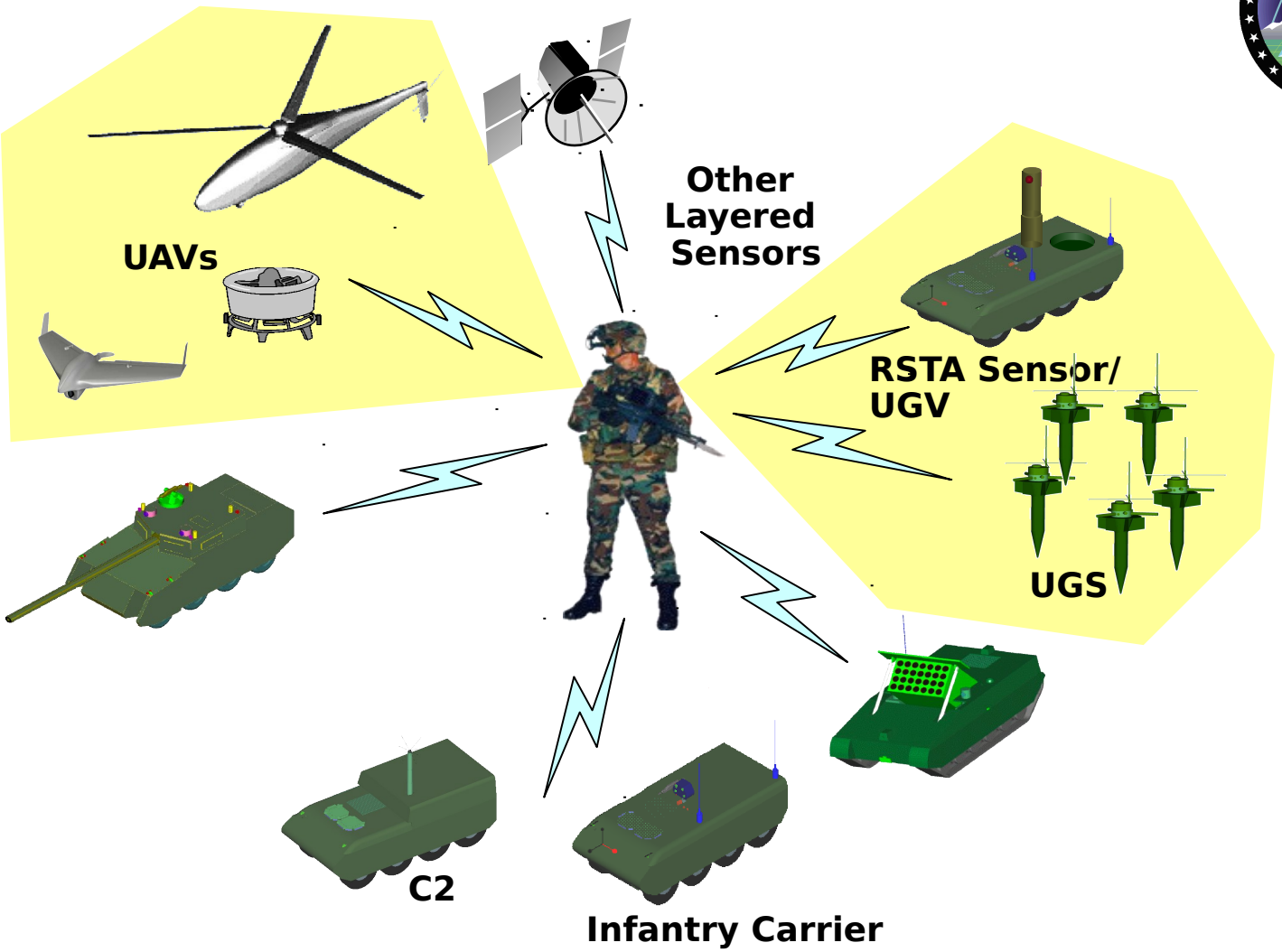




Synthetic Aperture Radar/
Moving Target Indicator (SAR/MTI)

Robotic & Unmanned Sensors

Future Opportunities



PM Firefinder

Firefinder (AN/TPQ-36(V)8)

Firefinder (AN/TPQ-37(V)8)

Artillery Locating Radar

Increased Targeting Accuracy

Firefinder (AN/TPQ-47)

Future Programs

Uncooled Lightweight Thermal Module – B-Kit

Figure 1 – Boeing Microbolometer

Figure 2 – Nytech Camera Core

Some Examples

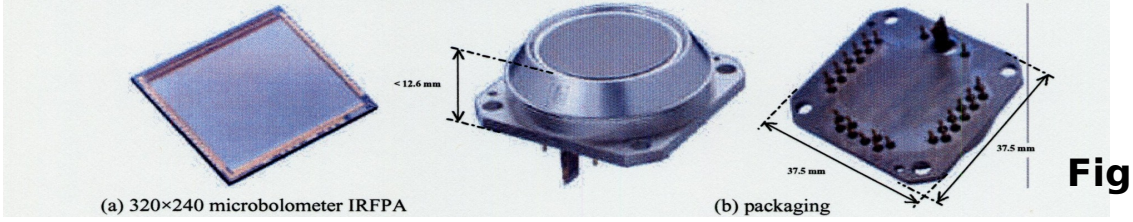
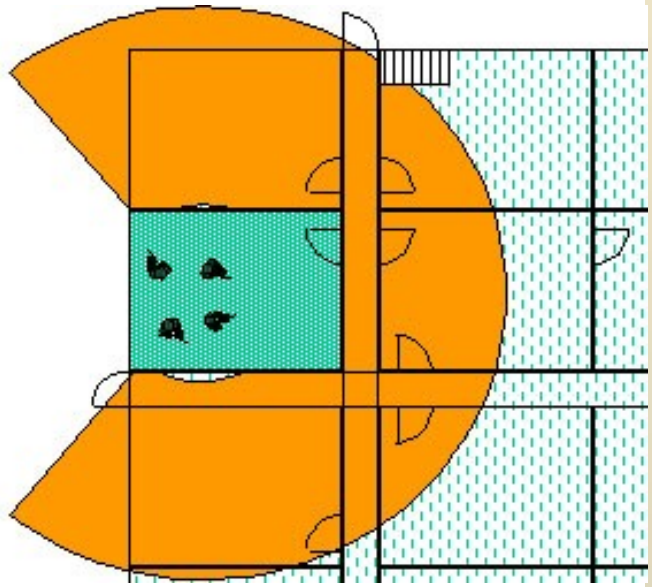


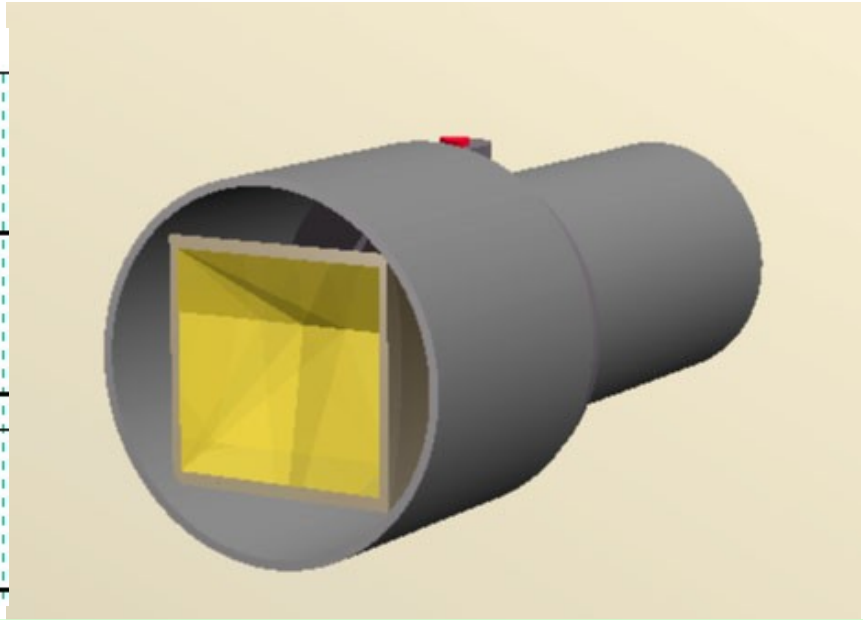
Figure 3 – Sofradir Microbolom

- **Uncooled B-Kit is a light weight, infrared module, that interfaces to the optics and electronics of various systems.**
- **Presently no standard exists for the lightweight thermal detector in industry. These thermal detectors are different from each other and can only be used with specific optics and electronics.**
- **The development of a lightweight thermal detector B-Kit standard will encourage competition and reduce costs.**

Future Programs

Hand Held Sense through the Wall (STTW) Scanner





- **Hand Held STTW Scanner is a light weight, stand alone, STTW device that provides infantry the capability of detecting people through building walls, ceilings, and floors.**
- **Hand Held STTW Scanner is the first in a series of STTW devices leveraging technologies assembled in National Institute of Justice coordinated research.**
- **Follow on STTW devices will provide enhanced capabilities on vehicular and unmanned platforms through HTI.**

Thermal Omnibus II TWS Characteristics

- **Lightweight Day/Night Thermal Target Acquisition System**
- **Operates in Adverse Weather and Dirty Battlefield Conditions**
- **Provides Surveillance and Target Acquisition Capability for Individual and Crew Served Weapons**
- **Light and Medium Versions:**

	Light TWS	Medium TWS
Weight (lbs.)	2 (obj.) - 3 (threshold)	3.5 – 5
Field of View (° min)	14	6/18 switchable
Range (M, clear air, man tgt)	550	1100

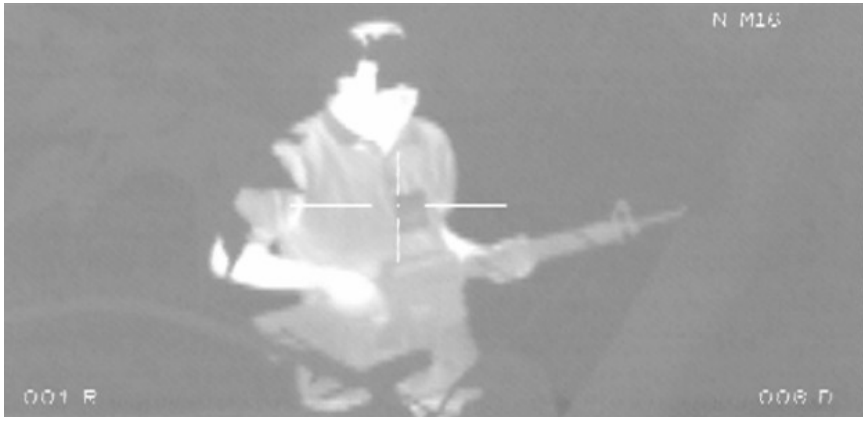
- **Desired Enhancements**

  Lower Weight, Power, Operations & Support Costs

  Increased Reliability, Range, Field of View

  Path for Technology Improvement Insertion

Thermal Weapon Sight (TWS) AN/PAS-13



View Through TWS

Thermal Omnibus II DVE Characteristics

- **Thermal Imaging Device to Aid Driving of Tactical Wheeled Vehicles and Combat Vehicles**
- **Enhances Vehicle Movement During Daylight, Darkness, Adverse Weather, and Dirty Battlefield Conditions**
- **System Consists of "A" and "B" Kits Comprised of Vehicle Installation/Mounting Hardware, Sensor, and Display/Control**
- **Supports Detection of 22 Inch Object at 110 Meters**
- **Required Minimum Field of View: 20° Vertical, 40° Horizontal**
- **Desired Enhancements**
  - **Increased Field of View, Better Depth Perception**
  - **Improved Limited Visibility Operations, High Resolution Display**
  - **Increased Reliability, Reduced Operation & Support Cost**
  - **Ability to Incorporate Technology Improvements Such As Multi-Spectral Image**

Driver's Vision Enhancer (DVE) AN/VAS-5

Mounts

View Through DVE

Thermal Omnibus II Contract Opportunity

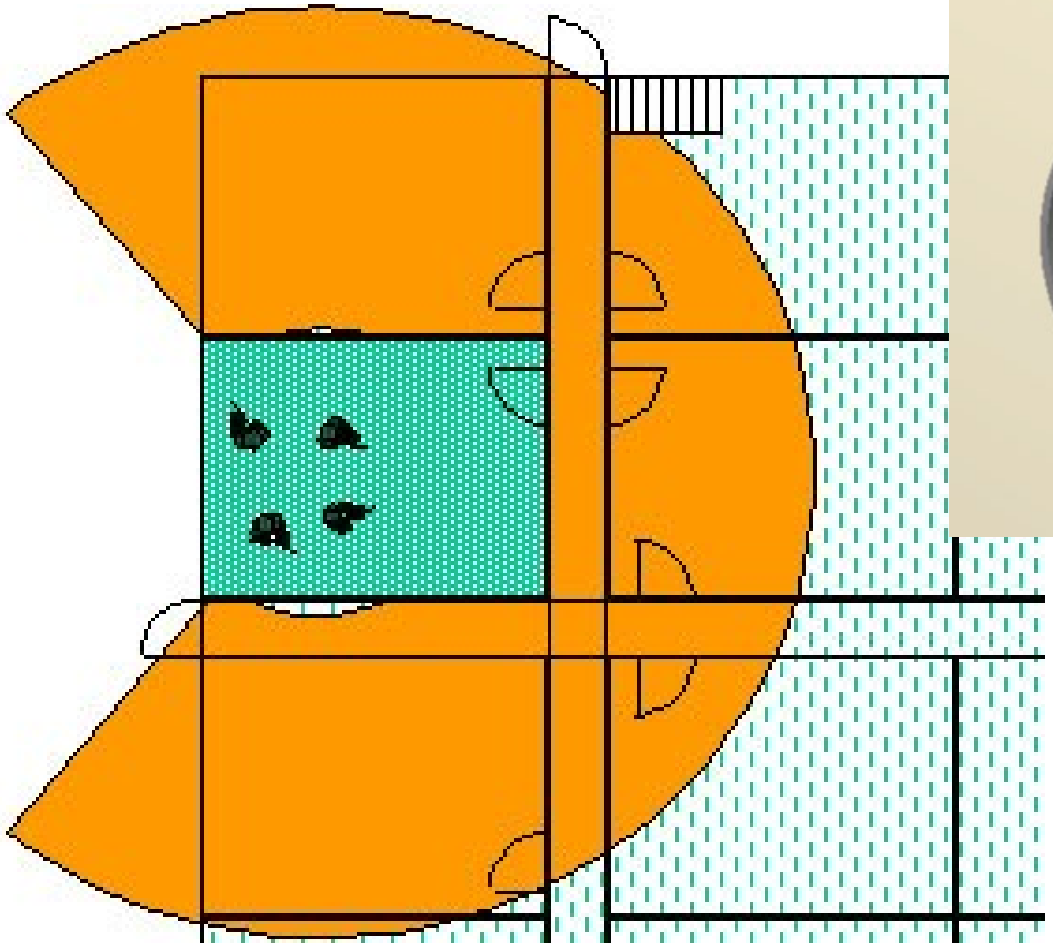
Objective: **Thermal Vision**	**Procurement of Light and Medium Weapon Sights (TWS) and Driver's Enhancers (DVE)**
Contract Type: **Basic Year Awards**	**Firm Fixed Price, 3-Year Multi-Year w/ Quantity and Options in Each Year, 2 Option (Total 5 Years), One or More**
Estimated Value: **2000 $200M**	**Basic ~ $82-92M (qtys: ~ 3500 LTWS, MTWS, 2500 DVE); Total Options ~**
Key Milestones: **Contract**	**1QFY03 RFP Release, 2QFY03 Award, 1QFY04 First Deliveries**
Technical Contact: **704-1251**	**Mr. Daniel Kitts (TWS) 703-704-1292 Mr. Joseph Brooks (DVE) 703-**
Acquisition Contact:	**Ms. Deborah Gilligan 732-532-5454**
Solicitation # or RFQ #:	**TBD**

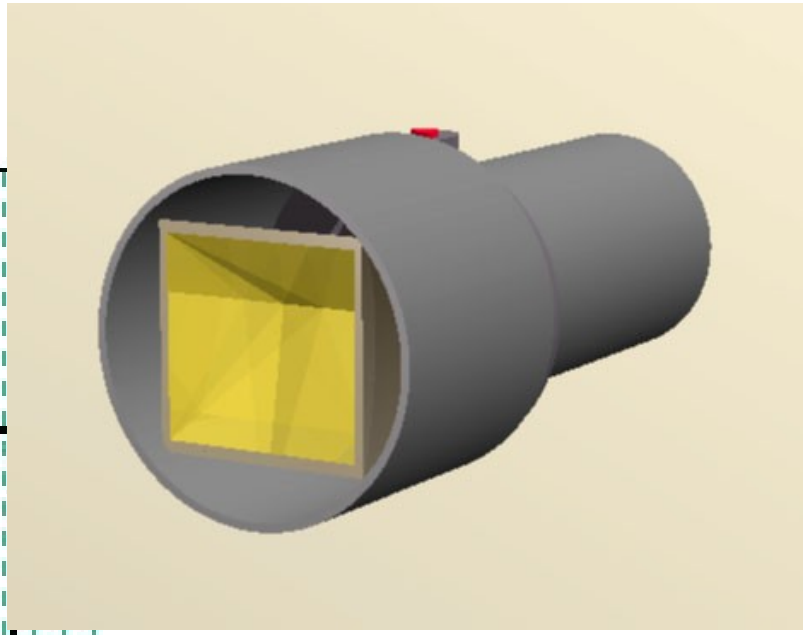
Thermal Omnibus II
TWS & DVE

Sense Thru The Wall (STTW) Characteristics

- Lightweight System to Detect Humans on the Opposite Side of Walls
- Operates in Adverse Weather and Dirty Battlefield Conditions
- Performs Close Range Surveillance
- Performance Parameters: TBD
- Operational Requirements Definition Underway at Ft Benning, GA.
- CECOM I2WD Performing Technical Management of the System Development

Sense Thru The Wall (STTW) Scanner





Sense Thru The Wall (STTW) Contract Opportunity

Objective:	**Perform Concept Studies Leading to Milestone B Decision for the First Sense Thru The Wall Infantry System**
Contract Type:	**Broad Area Announcement, One or More Awards**
Estimated Value:	**TBD**
Key Milestones:	**2QFY03 RFP Release, 2QFY03 Contract Award**
Technical Contact:	**Mr. Robin Whitworth (703)704-1391**
Acquisition Contact:	**TBD**
Solicitation # or RFQ #:	**TBD**

Project Manager
Night Vision/Reconnaissance, Surveillance and Target Acquisition
ATTN: SFAE-IEW&S-NV
10221 Burbeck Road
Ft. Belvoir, VA 22060-5806

Comm: 703-704-3447/3450
(DSN: 654)

Website address-
http://peoiews.monmouth.army.mil/nvrsta